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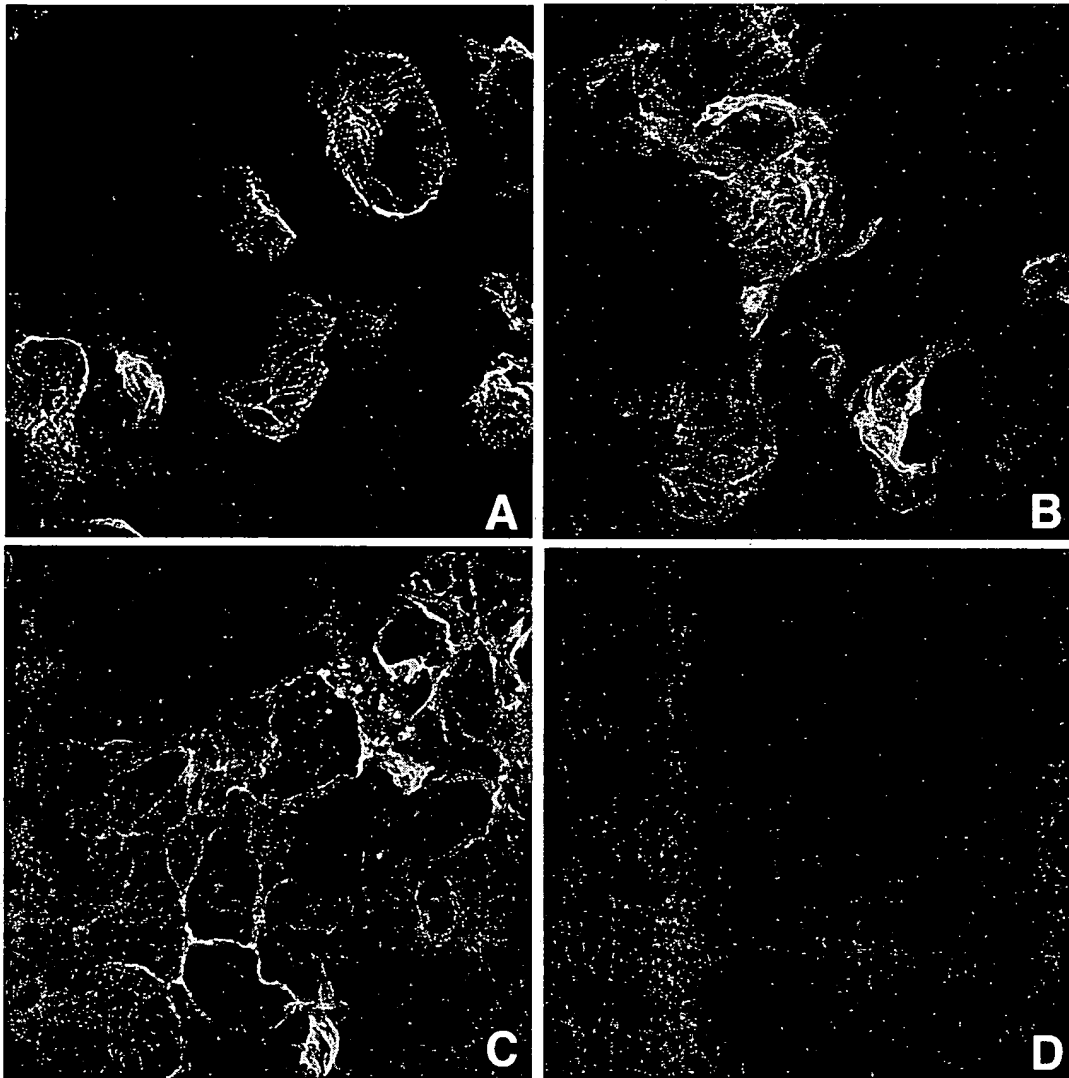
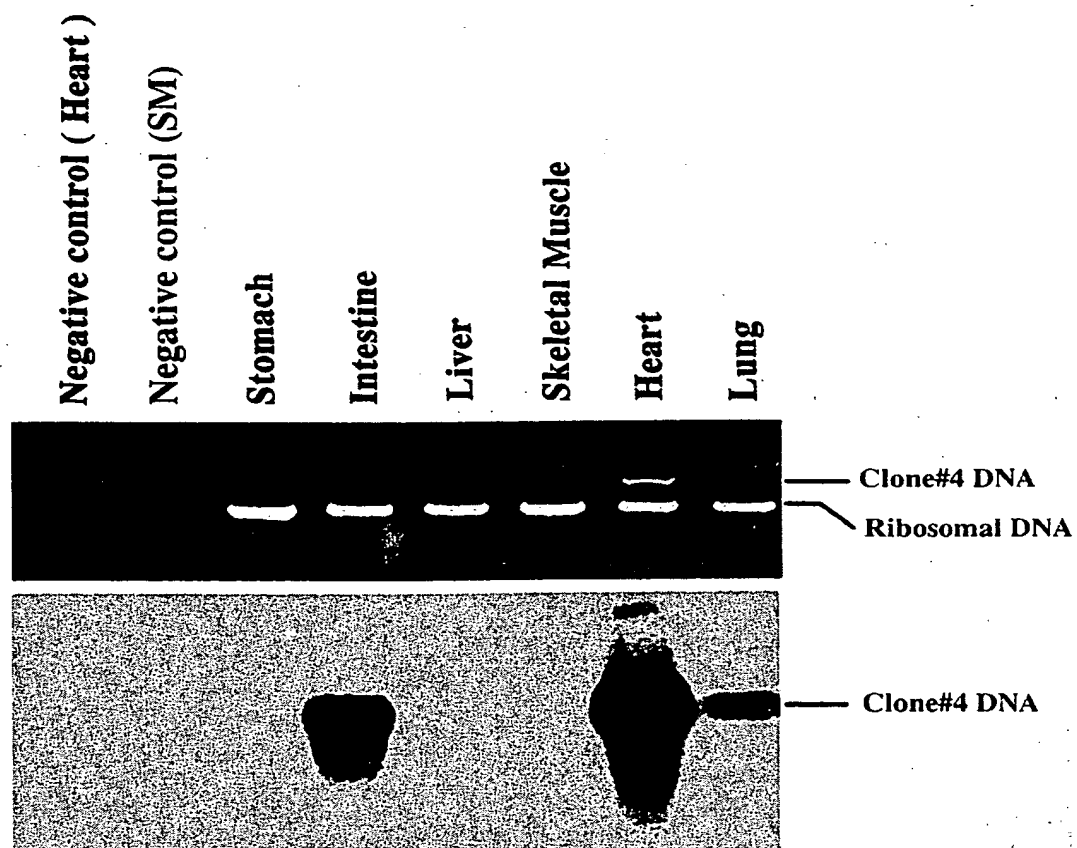


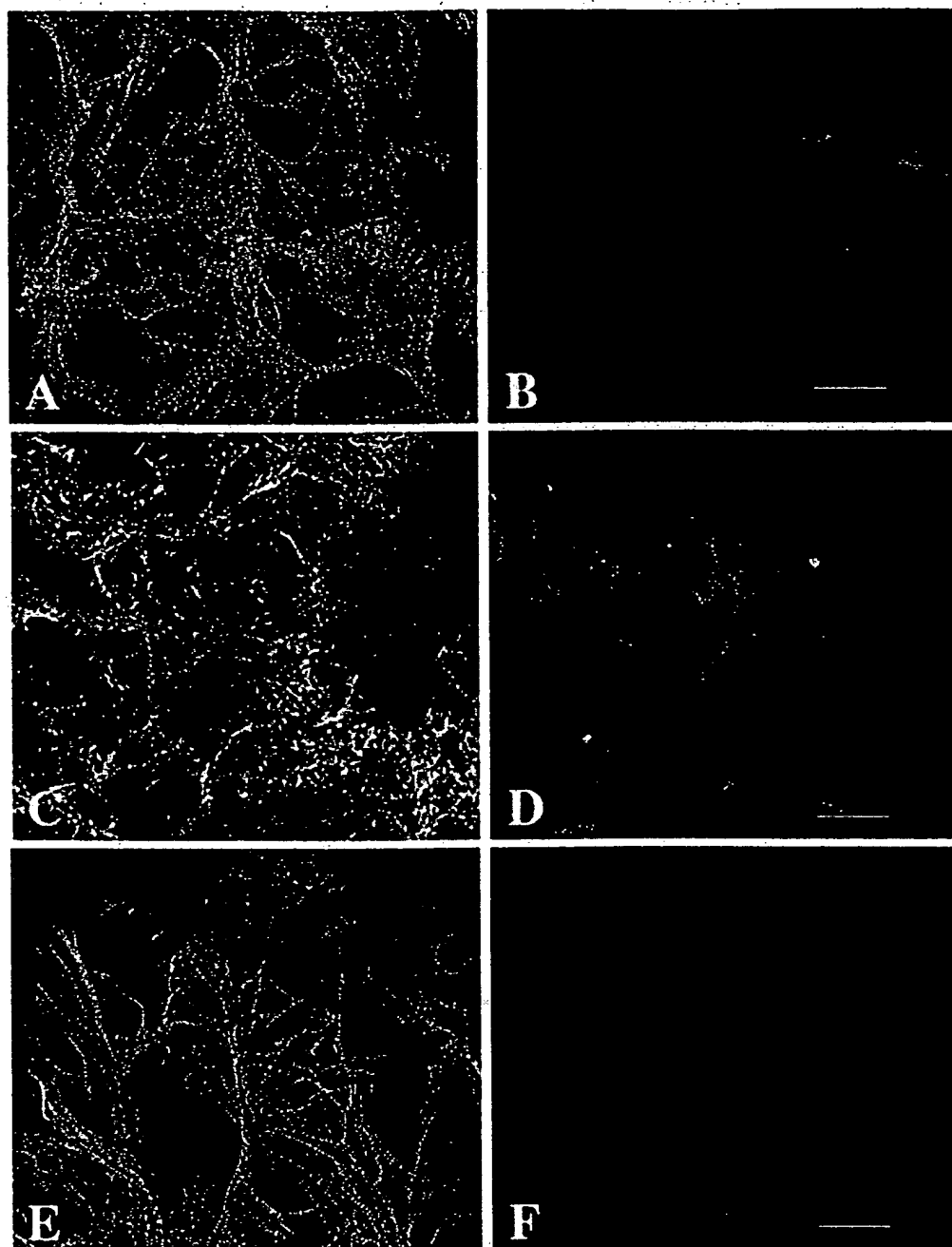
FIG. 1



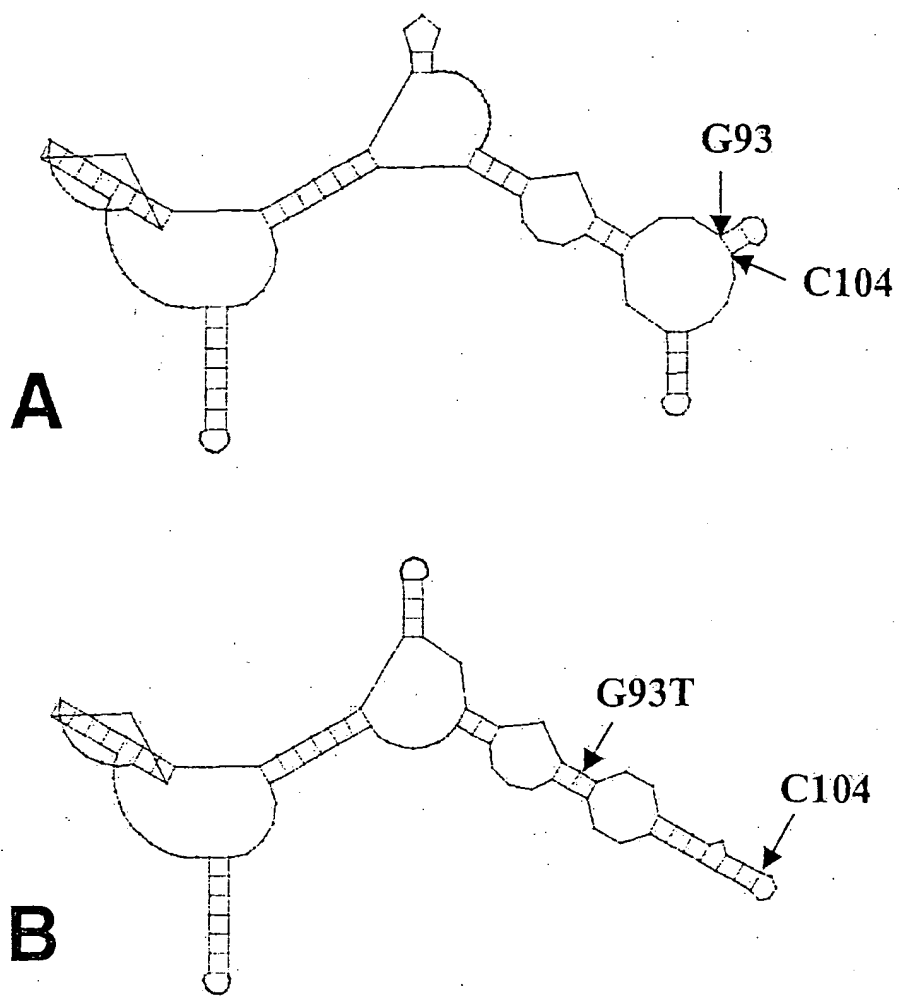
**FIG. 2**

Normal:	1	agcaccactccatttttggaaacacctcctctaccgtggatgagaggcggagccgatacctt	60
Mutant:	1	agcaccactccatttttggaaacacctcctctaccgtggatgagaggcggagccgatacctt	60
Normal:	61	tggaatttgtacatgtgacctcaagggttgacgcatatccgagcagttgctggattagag	120
Mutant:	61	tggaatttgtacatgtgacctcaagggttgacactcatatccgagcagttgctggattagag	120
Normal:	121	caggcactcccttatcggttttggaaatggagaccagaaagaacact	166
Mutant:	121	caggcactcccttatcggttttggaaatggagaccagaaagaacact	166

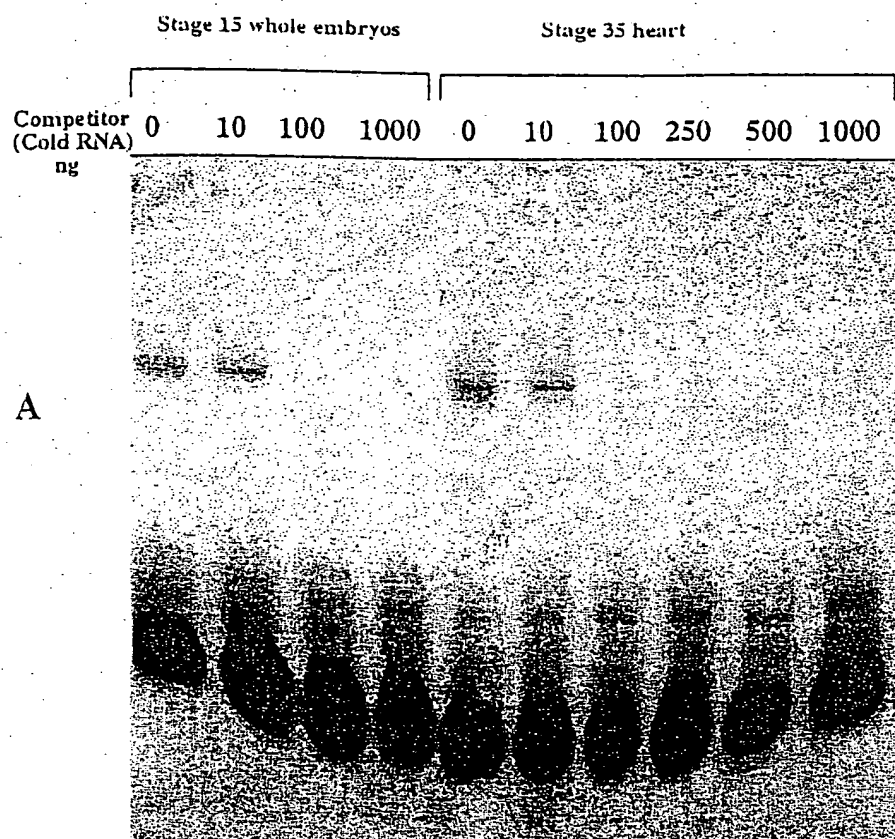
**FIG. 3**



**FIG. 4**



**FIG. 5**



B

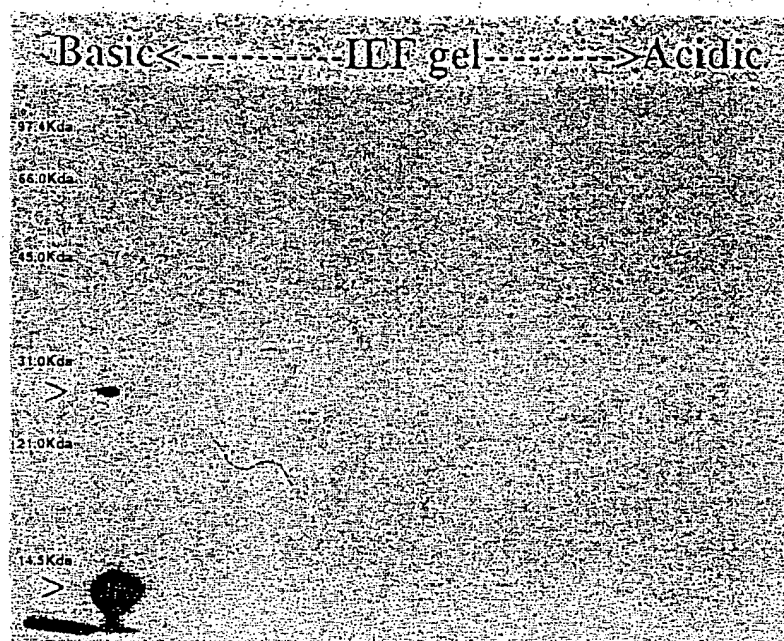


FIG. 6

No.1→ GTTCAAAAATAACATTTTAAT  
 TTTGTATCTCCTAATACAGCCATCATAACATATTCTAGGACTGGTATAAC  
 TGTATAGACAAACTCCCTTCCTAGGATATTTTGGGAAAGTGCTGGATAGC  
 CGGGGAGAACAGCACCTTTCTCTCAGGCAATGTTAAATAGGTGCAATGTT  
 TTCACATGTTATGGAATATATCTTCCAACCTGACTGACCAAGAGAAAACAA  
 TGAACCACAATAACCGGAACTTCATTCGTTTGACCCTTCCACCCACTCGA  
 GCGTCAACATGCCCAGGCCGCTACCCCTTGACACACGTGTAGCACCCTC  
CATTTTTTGGAACACCTCCTCTACCGTGATGAGAGGCGGAGCCGATCCTT  
TGGAATTTGTACATGTGACCTCAAGGTTGCACGCATATCCGAGCAGTTGC  
TGGATTAGAGCAGGCACTCCCTTATCGGCTTTGGAATGGAGACCAGAAAG  
AACAATGTGGGACAGCTGATATGGAGGGCAGGGCGGGGAAGTGAGAGAAA

\* (+Poly A)

GGGCAACAATAGAGGGCAGATAAAGGGGGGAGGGCAAGGAAATAAAGCAGGA  
 ACTGCAGTGGGAGAAAACGTCGAACGAGAAA/AAAAAAAAAAAAAAAAAAAAA←

No. 620

FIG. 7



**A**

AxoSmN Full-length cDNA Sequence

```
AGCCGATCCTTTGGAATTTGTACATGTGACCTCAAGGTTGCACGCATATC
CGAGCAGTTGCTGGATTAGAGCAGGCACTCCCTTGCTCCAACACGTTGAC 100
TTTAGGATGCGCTGTATCCTGCAAGATGGCGGCATCTTTATTGGTACTTT
CAAAGCTTTTCGATAAACACATGAATCTGATTCTCTGTGACTGCCGACGAGT 200
TCAGGAAGATAAAACCTAAGAATTCTAAACAGCCAGAGCGTGAAGAGAAG
AGGGTCCTTGGGCTGGTACTACTCCGTGGCGAAAACCTTGTATCTATGAC 300
CGTGGAAGGACCACCCCCAAAAGATACTGGTATTGCCCCGTGTCCCACTGG
CAGGAGCTGCAGGAGGACCTGGTGTGGGAAGGGCTGCAGGGACAGGAGTG 400
CCAGCAGGTGTACCAATACCGCAAGCACCAGCGGGCTTGGCAGGCCCAGT
GCCAGGTGTTGGTGGCCCATCCCAGCAGGTGATGACACCACAGGGACGTTG 500
GAAATCCATCTGGTGTAGCATTGCAGGAGCACCAACGCAGTACCAGCCT
GGTGGGAGAGGTGGCCCCGATGCTGCCAATGGGCTGTGGTGGACCTCCAGG 600
CATGATGGGACCACCCCCGGGCATGAGGCCACCTATGGGCCCCACCTATGG
GAATGCCCCCAGGCCGAGGTGGTTCAATGGGCATGGCTCCAGCTGGTATG 700
CGACCTCCACCACCTGGTATGAGAGGCGACCGATTCTAGAAACAAAGGTT
CACCTCGTGGGAAGCGTTCCTCAAGACCATAAATCGATTACTTGTTTGTG 800
GATTGAAAGTTGATGGATGTGTTGAGTGGATGCCCAGTGCACCTTACTGGC
AGTTGGAAGCCCTTGATAGTAGCTACTTTTACTTTCAGGAGATCTGGCTG 900
AAGCTGTTTCATTTTTCTTATTTACATGTAAATGTTTTTAAATAAATTCTA
AAATGGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

**B**

AxoSmN Amino Acid Sequence:

```
MRCILQDGRIFIGTFKAFDKHMNLILCDCDEFKIKPKNSKQPEREEKRVLGLVLLRGE
NLVSMTVEGPPPKDTGIARVPLAGAAGGPGVGRAAGRGVPAGVPI PQAPAGLAGPVRGV
GGPSQQVMTPQGRGNPSGASIAGAPTQYQPGRRGPMPLPMGCGPPGMMGPPPGMRPPM
GPPMGMPGRGGSMGMPPPGMRPPPPGMRGDRF
```

FIG. 8